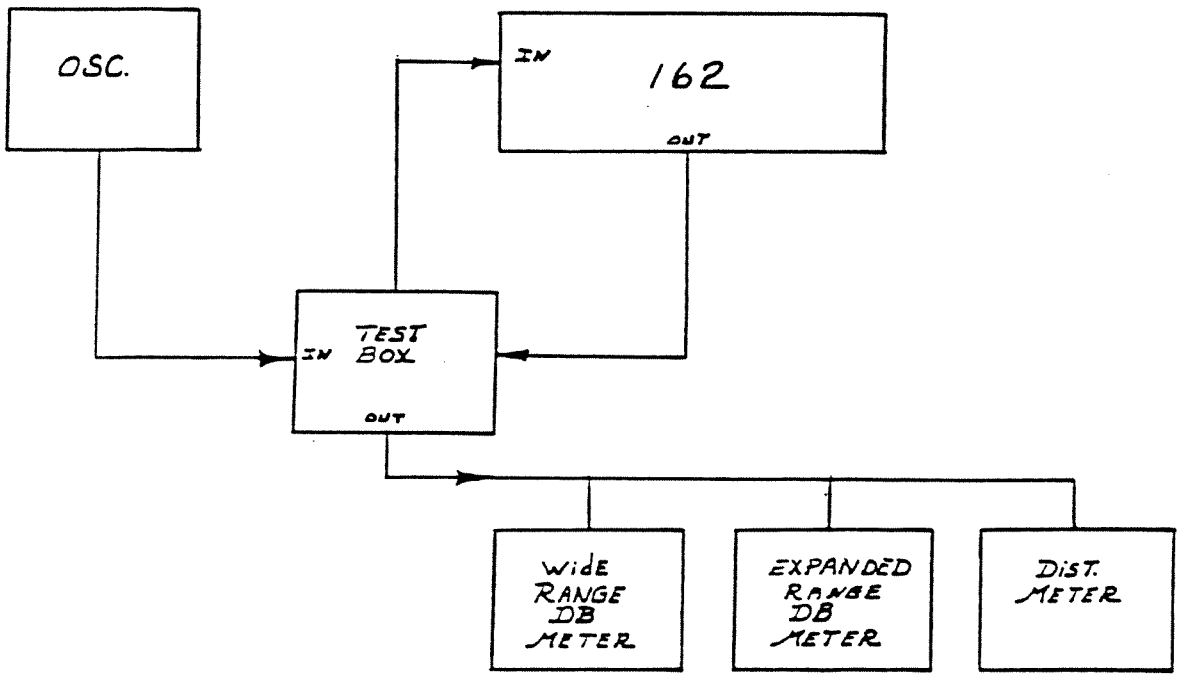
INITIAL FACTORY TEST AND ALIGNMENT PROCEDURES

DBX MODEL 162

TEST EQUIPMENT REQUIRED:

Quantity	ITEM	MFG. TYPE OR EQUIVALENT
1	Signal Oscillator	Kron-Hite 4200
1	Digital Multimeter	Dana 3300
1	Oscilloscope	Any (covering audio range)
1	Wide Range dB Meter	DBX SK-C-1026, HP427
1	Harmonic Distortion Meter	DBX SK-B-1070, Heath IM58 or IM5258 HP330, GR1500, 1900
1	± 3 dB Meter (Cal. Ref. 1 Volt)	DBX SK-C-1071
1	Test Unit	DBX Model 162
1	Test Adaptor (optional)	DBX TA-162
1	Tone Burst Generator	GR1396 B, DBX #260247
3	Phono-to-Phono Shielded Cables	
2	Input/Output Phono Shielded Cables	

162 TEST SET-UP



1) Power Supply Adjust:

1.1) Measure the voltage at pin 7 of the PC 7 connector, and adjust R21 for +15 volts ± .01 volts. Measure the voltage at pin 8 of the same connector. Must measure between - 14.85 to - 15.15 volts.

2) Dual RMS Calibration:

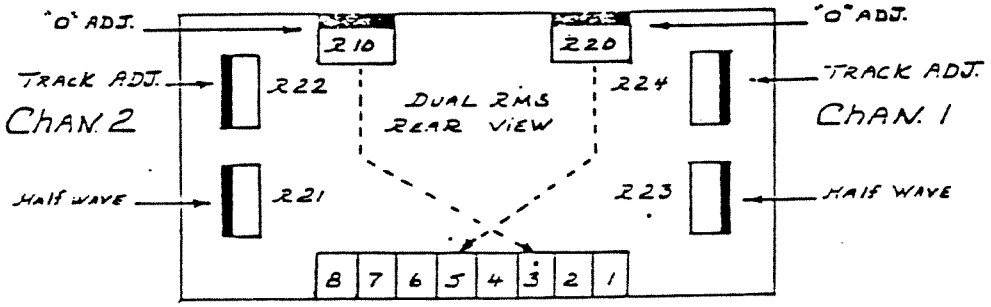
In the following procedure, anything written in double parenthesis (( )) concerns channel 2.

2.1) Apply 1.0 VRMS @ 1 khz to both channels, measure the voltage on the minus side of C28 ((minus side of C26)). Adjust R20 ((R10)) for " 0 " volts ± .001 volts . (with switch set for input mode)

2.2) Monitor the half wave rectified signal at the junction of R13 and R14 ((junction of R3 and R4)) of the dual RMS module. Step the oscillator to -60 db and adjust R23((R21)) if necessary, for a half wave.

2.3) Short the oscillator and adjust R24 ((R22)) for a DC voltage of +.430 volts. (Re-adjust R23((R21)) if required).

2.4) Measure "pin 3 " on both VCA'S, reading must be within ± .030 vdc. (If not, adjust R18 on VCA).



2.5) Repeat steps 2.1 thru 2.3 until the Dual RMS tracks as follows:

-10 db	-.060 vdc	(± .001)
0 db	+.000 vdc	(.000)
-10 db	+.060 vdc	(±.001)
-20 db	+.120 vdc	(±.002)
-30 db	+.180 vdc	(±.003)
-40 db	+.240 vdc	(±.004)
-50 db	+.300 vdc	(±.012)
-60 db	+.360 vdc	(±.024)
Shorted	+.430 vdc	(+.425 to +.480)